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CLAIMS

- 1. A method of performing data communication between a sending user communications unit (400) and multiple receiving user communications units (410-430) in a cellular communications system (1), comprising the steps of:
- said sending user communications unit (400) providing data to be communicated to said multiple receiving user communications units (410-430) over said communications system (1);
- identifying a set of at least two of said multiple receiving user communications units (410-412; 420-424) being associated with a same cell (15; 25) of said communications system (1); and
- simultaneously transmitting said data to said identified receiving user communications units (410-412; 420-424) of said set using a dedicated channel specific for said cell (15; 25).
- 2. The method according to claim 1, wherein said transmitting step comprises simultaneously point-to-multipoint communicating said data using said dedicated channel.
- 3. The method according to claim 1 or 2, wherein said communications system (1) comprises a communications server (100) managing said data communication, said method further comprising, for a user communications unit (400-430), the steps of:
- generating, in said communications server (100), session data (144) identifying a communications session, in which said user communications unit (400-430) is participating; and
- providing, to said communications server (100), cell information (146) identifying a cell (15; 25; 35) with which said user communications unit (400-430) presently is associated.
- 4. The method according to claim 3, wherein said identifying step comprises identifying said set of receiving user communications units (410-412; 420-424) based on said session data (144) and said cell information (146).

- 5. The method according to claim 4, wherein said identifying step comprises the steps of:
- said communications server (100) comparing, for a given session data (144), said cell information (146) associated with said multiple receiving user communications units (410-430) with a cell identifier of said cell (15; 25);

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- identifying said set of receiving user communications units (410-412; 420-424) based on said comparison.
- 6. The method according to claim 3 to 5, further comprising, for a user communications unit (400-430), the steps of:
- providing address information (142) associated with said user communications unit (400-430) to said communications server (100); and
- associatively storing said address information (142), said session data (144) and said cell information (146) associated with said user communications unit (400-430) in a database (140) associated with said communications server (100).
- 7. The method according to claim 3 to 6, further comprising said user communications units (400-430) providing said cell information (146) to said communications server (100) during a communications session set up procedure.
- 8. The method according to claim 1 to 7, further comprising providing a notification identifying said dedicated channel to said receiving user communications units (410-412; 420-424) of said set.
- 9. The method according to claim 1 to 8, further comprising point-to-point transmission of said data to receiving user communications units (430) not belonging to said set using a single channel for each user communications unit (430).

10. The method according to claim 1 to 9, further comprising:

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- providing, for each receiving user communications units (410-412; 420-424) of said set, radio link quality information;
- determining a lowest link quality based on said provided link quality information; and
- using said lowest link quality for selecting coding scheme for all receiving user communications units (410-412; 420-424) of said set.
- 11. The method according to claim 1 to 10, wherein said dedicated channel is a multimedia receiver channel (MMRC).
- 12. The method according to claim 1 to 11, wherein said data communication is push to talk over cellular (PoC) communication.
- communications server (100)adapted for managing data 13. A communications (1),said communication cellular system in communications server (100) comprising:
- means (110) for receiving data from a sending user communications unit (400) and intended to be communicated to multiple receiving user communications units (410-430) over said communications system (1);
- means (120) for identifying a set of at least two of said multiple receiving user communications units (410-412; 420-424) being associated with a same cell (15; 25) of said communications system (1); and
- means (110; 310) for simultaneously transmitting said data to said identified receiving user communications units (410-412; 420-424) of said set using a dedicated channel specific for said cell (15; 25).
- 14. The server according to claim 13, wherein said transmitting means (110; 310) is configured for simultaneously point-to-multipoint communicating said data using said dedicated channel.

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15. The server according to claim 13 or 14, further comprising:

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- means (250) for generating session data (144) for a user communications unit (400-430), said session data (144) identifying a communications session, in which said user communications unit (400-430) is participating; and
- means (110) for receiving cell information (146) identifying a cell (15; 25; 35) with which said user communications unit (400-430) presently is associated.
- 16. The server according to claim 15, wherein said identifying means (120) is configured for identifying said set of receiving user communications units (410-412; 420-424) based on said generated session data (144) and said provided cell information (146).
 - 17. The server according to claim 16, wherein said identifying means (122) comprises:
 - means (124) for comparing, for a given session data (144), said cell information (146) associated with said multiple receiving user communications units (410-430) with a cell identifier of said cell (15; 25); and
 - means for including a receiving user communications (410-412; 420-424), the cell information (146) of which corresponds to said cell identifier as determined by said comparing means (124), into said set of receiving user communications units (410-412; 420-424).
 - 18. The server according to claim 15 to 17, further comprising:
 - means (110) for receiving address information (142) associated with a user communications unit (400-430); and
 - means (130) for associatively storing said address information (142), said session data (144) and said cell information (146) associated with said user communications unit (410-430) in a database (142) associated with said server (100).

- . 19. The server according to claim 13 to 18, further comprising means (310, . 350) for providing a notification identifying said dedicated channel to said receiving user communications units (410-412; 420-424) of said set.
- 20. The server according to claim 13 to 19, further comprising means (210) for point-to-point transmission of said data to receiving user communications units (430) not belonging to said set using a single channel for each user communications unit (430).
- 21. The server according to claim 13 to 20, further comprising a push to talk 10 over cellular (PoC) server (200) comprising said identifying means (120) and a multimedia broadcasting multicasting service (MBMS) server (300) comprising said transmitting means (310).
- 22. The server according to claim 21, wherein said MBMS server (300) is 15 configured for simultaneously transmitting said data using a multimedia receiver channel (MMRC).
- 23. A cellular communications system (1) providing data communication between a sending user communications unit (400) and multiple receiving 20 user communications units (410-430), said system (1) comprising a communications server (100) according to any of the claims 13 to 22.